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Representative according to § 16, PatG [Patent law]

(72) Named as inventor: The inventor is the applicant.

Research application according to § 28a, PatG, has been submitted.

(56) Documents to be considered in the evaluation of patentability:

DT-OS 1,428,843

DT-Gbm 1,994,320

DT-Gbm 7,109,479

CH-PS 448,838

FR-PS 1,383,670

Heinrich Liesen

**Bed with a Tilting Leg**

The invention concerns a bed that can be used to serve for resting purposes and can be placed in motion for training and conditioning purposes.

The materials needed for a resting bed can be made exploitable for another device, with another purpose in addition to its purpose as a resting bed, by giving them appropriate shapes and designs.

Beds for resting purposes are known in a large number of embodiments. Moving beds are known on which a person can perform leg movements in a lying or sitting position through a step handle or through expansive arm movements through a pulling device. Although a number of the known beds can be adjusted in many ways, movements with the bed itself cannot be performed.

The invention is based on the task of expanding the possibilities for using a resting bed for another purpose in a reasonable manner.

This task is solved according to the invention by bed form that can be rolled around the entire edge of the bed by a tilting leg in an oblique position.

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Through the function of the tilting leg, which is preferably placed in the middle, under the bed, the bed becomes a training and conditioning bed. In order to be able to change the oblique position of the training device, the tilting leg can be adjusted and held vertically and horizontally.

In order to place the training device in motion in an oblique position and use it in a lying or sitting position and in order to provide for holding, hand grips are provided on the sides. The hand grips can simultaneously be formed as footrests, in such a way that the feet provide holding when the device is used in a standing position. The hand grips and the footrests can be lowered and held as a unit.

The tipping-leg device can be used simultaneously as a lying and moving device by several persons, especially children, in a circular embodiment and in a larger diameter. In this case, a possibility for holding against rolling down is provided by equipping the upholstery system of the device with a mesh net.

The advantages achieved with the invention include especially the fact that the form bed represents, through the tilting leg, a new product as an effective training and conditioning device. In contrast to a large number of known training devices, in which body movements take place on one side, the effectiveness of the tilting device is underscored by the fact that the device, when used

in the lying or sitting position, can be placed in motion and a reaction is needed simultaneously against the body rolling down. The requirement of a body reaction on both sides can be facilitated by the fact that the device can be placed in motion and controlled by a second person through a control handle that can be applied or removed at the head or foot end. With appropriate dimensions of the tilting device, the advantages mentioned can contribute effectively to body control and thereby better ability to react in children of preschool age.

Embodiment examples of the invention are shown in the drawing and will be described further in the following. In Figs. 1, 3, and 4, the bed is represented as an upholstered system.

Fig. 1 shows the appropriate form of the rounding of the bed surface 1 in a top view with the bed legs 2 set in the position as a resting bed. Hand grips 3 provided on the sides are formed simultaneously as a foot rest 4, which can be lowered as a unit in such a way that the bed surface 1 lies flat.

Handrails 9 needed for the standing position lie under the upholstery system when not being used.

Fig. 2 shows the form bed 1 in a bottom view with the base 5 that holds the tilting leg 6. The base 5 with the tilting leg 6 can be set and held horizontally. In order to achieve an oblique position through the tilting leg 6 for purposes of movement, the form bed 1

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standing legs 2 must be removed or folded inward under the bed by a mechanism.

Fig. 3 shows the long side of the form bed 1 as a moving bed resting on the tilting leg 6 in the normal position and resting on the edge of the bed. In Fig. 4, the importance of the footrests 4 and the handrails 9 when used in the standing position is represented.

Fig. 5 shows a circular embodiment of the bed surface 1 with the mesh net stretched over the upholstery system 7.

The ability of the tilting leg 6 to be set vertically in the standing position 5 can be held as desired, but it can also consist of a simple plug device, a screw coil, or a hydraulic system. A plate-like support can serve to prevent the tilting leg from being turned in when the device is being used on a soft base. The edge of the bed can be provided with a rubber cushion around the rolling edge. At the foot end of the bed, an adjustable footrest can be applied through a plug device. The material of the bed with a tipping leg can consist of any suitable material, such as wood, metal, plastic, or a combination of the materials mentioned. In the drawing, the bed with a tilting leg is represented as made of plywood.

**Patent claims:**

1. Beds serving for resting purposes that can be placed in motion for training and conditioning purposes, characterized by the fact that a form bed (1) can be rolled around its entire edge about a tilting leg (2) in an oblique position.
2. A bed according to claim 1, characterized by the fact that the tilting leg (6) can be set and held in vertical and horizontal positions.
3. A bed according to claims 1 and 2, characterized by the fact that the hand grips (3) and footrests (4) can be formed and lowered and held as a unit.

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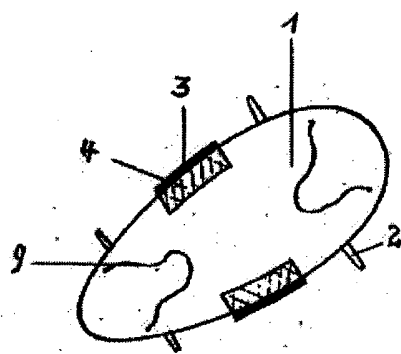


Fig. 1

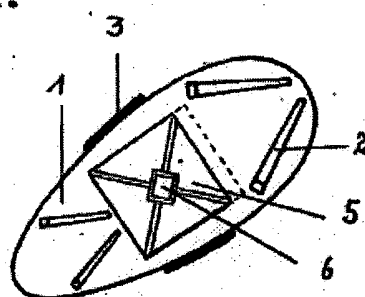


Fig. 2

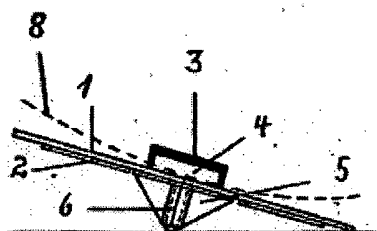


Fig. 3

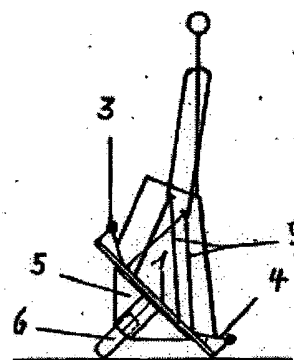


Fig. 4

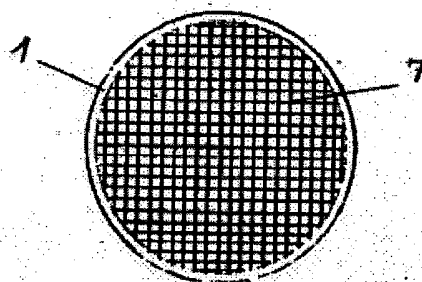


Fig. 5

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